Andrew Yi

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Education

Georgia Institute of Technology — *Atlanta, GA*

MS in Computer Science, GPA: 4.0/4.0 — *Aug 2019*

Syracuse University — *Syracuse, NY*

BS in Economics, GPA: 3.48/4.0 — *Dec 2008*

Experience

Riley & Grey — *Brooklyn, NY*

Technical Lead — *Jun 2017 - Apr 2019*

- Developed with and managed a team of three developers and two designers on features involving website template design and functionality, back-end services development/maintenance (API, payments, DevOps), website hosting, CI/testing/deployment and bug fixing (Ruby on Rails, JavaScript, Heroku).
- Architected, developed and successfully launched the company's first physical product - template-based paper stationary, featuring in-browser stationary editor, proofing/e-commerce systems and back-end integration with print provider (Ruby on Rails, ReactJS).
- Developed internal customer support tools to automate various time-consuming support related tasks.
- Maintained, patched and upgraded all services/systems used in the company's technology stack (Ruby, Ubuntu, PostgreSQL, Redis, etc.).
- Interviewed, onboarded and trained two full-stack developers and one customer support agent.

Software Engineer — *Jan 2015 - May 2017*

- Developed company's core products: website hosting, domain provisioning, website templates, and RSVP/guest management.
- Implemented 30+ website design templates, working closely with both design and front-end development teams, with emphasis on mobile-responsiveness, accessibility and design documentation.
- Refactored legacy CSS code to be more maintainable and modular, improving testability, reducing front-end bugs and increasing design/development iteration speed (SCSS, BEMS, Selenium, testing).
- Reduced server costs by 50% by addressing server memory bloat, optimizing SQL queries and adding caching layer (Memcached).
- Spearheaded efforts to migrate legacy AngularJS (1.x) code to modern ReactJS, with a focus on augmenting existing test suite via automated browser tests.

Friends & Family Foundry — *Brooklyn, NY*

Software Engineer (Contract) — *Oct 2018 - May 2019*

- BuildBook - Construction Management Mobile Application (app.buildbook.co): Lead team of three developers, architecting and developing RESTful JSON API (Ruby on Rails) and iOS/Android applications (React Native) featuring: payments, photo uploading, message/media caching, push notifications, full-text search (PostgreSQL) and project management application endpoints. Developed using Test-Driven Development (TDD, RSpec, Swagger) and Agile methodologies.
- Successfully launched and published MVP iOS application (NAHB International Builders Show, Las Vegas 2019).

Software Engineer — *Jul 2013 - Dec 2014*

- Built various web application back-end and front-end features for clients including Starbucks (store.starbucks.com) and IVY (ivy.com) (Ruby on Rails, AngularJS, ReactJS).

Parcel (thisisparcel.com) — *New York, NY*

Founding Engineer — *Jan 2017 - Apr 2019*

- Developed an integrated suite of applications including a Chrome browser extension and Web/iOS applications focused on shopping, featuring product bookmarking, website scraping, price tracking and budgeting (Ruby on Rails, AngularJS, Selenium, Web Scraping).

Projects

Lunar Lander (OpenAI) (https://github.com/AndrewHYi/omscs-rl-p2)

CS 7642 Reinforcement Learning

- Trained agents using the Double Q-learning algorithm and soft target update rule (Python, TensorFlow/Keras, OpenAI Gym).

Sleep Stage Classification (https://github.com/AndrewHYi/BD4H-Final-Project)

CS 6250 Big Data for Health Informatics

- Implemented and trained CNNs for single-channel EEG sleep stage classification using the National Sleep Research Institute's Sleep Heart Health Study datasets (Python, TensorFlow/Keras, NumPy, Scikit-learn, Hadoop).

Stereo Correspondence (https://github.com/AndrewHYi/omscs-cv-ps7final)

CS 6476 Computer Vision

- Implemented and analyzed window-based stereo correspondence techniques, including the sums of squared differences measure and loopy belief propagation (Markov random fields) using the Middlebury Stereo datasets (Python, NumPy).